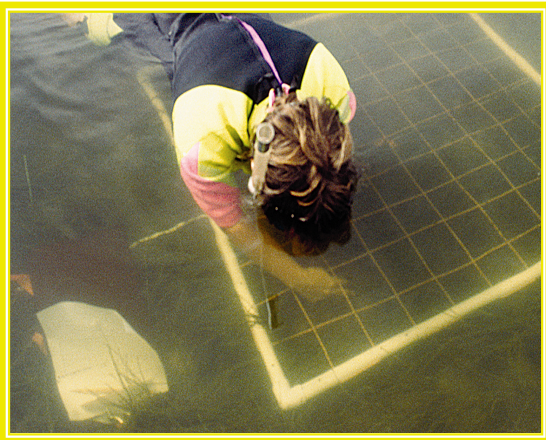


**Table 8-1c. Banana River Lagoon Budget***Research, Non-point source controls, watershed and coastal wetland plans and projects***SJRWMD Contractual and Staff Estimates***Includes ad valorem, IRLNEP (EPA), license plate, and state-appropriated funds directed to the Districts***Fiscal Year**

	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07
<b>Seagrass &amp; Water Quality</b>	<b>These projects are applied Lagoon-wide, including Banana River Lagoon, and the estimated costs are found in the Lagoon-wide Budget (Table 8-1a)</b>					
Seagrass photography & mapping						
Seagrass field monitoring						
Ambient water quality monitoring						
Quantification of inputs/boundary conditions for IRL modeling						
Drift macroalgae monitoring						
Assessment of new methods to monitor seagrass & water quality						
Investigation of factors limiting seagrass growth (light, salinity, hydrodynamics, etc.)						
Muck and toxic substances survey						
Inventory of domestic WWTPs						
Application of watershed & IRL models						
PLRG/TMDL development & coordination						
Non-point (stormwater) control projects						
Other muck removal projects (e.g., southern Banana R.)						
<b>TOTALS</b> rounded to nearest \$1,000	<b>\$259,000</b>	<b>\$159,000</b>	<b>\$480,000</b>	<b>\$291,000</b>	<b>\$333,000</b>	<b>\$1.791M</b>
<b>Coastal Wetlands</b>						
Conduct wetland component of IRL-North Feasibility Study (USACE/SJRWMD)	\$ 550	\$ 550	\$ 550	\$ 550	\$ 550	\$ 550
Wetland rehabilitation and management	\$5,500	\$5,500	\$35,500	\$105,500	\$55,500	\$105,500
<b>TOTALS</b> rounded to nearest \$1,000	<b>\$6,000</b>	<b>\$6,000</b>	<b>\$36,000</b>	<b>\$106,000</b>	<b>\$56,000</b>	<b>\$106,000</b>



Seagrass monitoring in northern Banana R. Lagoon



Installing a baffle box: traps soil and debris in urban runoff

**Table 8-1d. North & Central IRL Budget**

Research, Non-point source controls, watershed and coastal wetland plans and projects

### SJRWMD Contractual and Staff Estimates

Includes ad valorem, IRLNEP (EPA), license plate, and state-appropriated funds directed to the Districts

	Fiscal Year					
	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07
<b>Seagrass &amp; Water Quality</b>	<b>These projects are applied Lagoon-wide, including the North and Central IRL, and estimated costs are found in the Lagoon-wide Budget (Table 8-1a)</b>					
Seagrass photography & mapping*						
Seagrass field monitoring*						
Ambient water quality monitoring*						
Quantification of inputs/boundary conditions for IRL modeling*						
Assessment of new methods to monitor & manage data						
Investigation of factors limiting seagrass growth (light, salinity, hydrodynamics, etc.)						
Drift macroalgae monitoring*						
Muck and toxic substances survey						
Inventory of domestic WWTPs						
Application of watershed and IRL models*	\$260,000	\$165,000	\$118,250	\$110,000	\$ 82,500	\$ 82,500
PLRG/TMDL development & coordination	\$122,000	\$ 27,500	\$113,750	\$ 5,500	\$ 2,750	\$ 2,750
Non-point (stormwater) control projects*	\$3.758M	\$2.055M	\$3.082M	\$3.582M	\$6.116M	\$6.116M
Sebastian R. muck removal	\$1.916M	\$2.555M	\$2.555M	\$227,500	\$0	\$0
Other muck removal projects; incl. plans & surveys*	\$602,250	\$100,000	\$ 8,250	\$1.522M	\$1.522M	\$ 8,250
<b>TOTALS</b> rounded to nearest \$1,000	<b>\$6.659M</b>	<b>\$4.902M</b>	<b>\$5.878M</b>	<b>\$5.448M</b>	<b>\$7.723M</b>	<b>\$6.209M</b>
<b>Coastal Wetlands</b>						
Conduct wetland component of IRL-North Feasibility Study (USACE/SJRWMD)*	\$ 1,100	\$ 1,100	\$ 1,100	\$ 1,100	\$ 1,100	\$ 1,100
Shoreline vegetation plantings (coord. w/ ELC)	\$ 51,050	\$ 550	\$ 50,550	\$ 25,550	\$ 25,550	\$ 25,550
Wetlands Management Research Initiative	\$ 13,750	\$ 13,750	\$ 5,500	\$ 5,500	\$116,500	\$ 5,500
Wetland rehabilitation and management	\$ 58,250	\$458,250	\$178,250	\$ 78,250	\$ 78,250	\$ 78,250
<b>TOTALS</b> rounded to nearest \$1,000	<b>\$124,000</b>	<b>\$474,000</b>	<b>\$235,000</b>	<b>\$110,000</b>	<b>\$221,000</b>	<b>\$110,000</b>

\*Also included in the IRL-North Feasibility Study (USACE/SJRWMD)



Reconnecting an impounded wetland in Central IRL



Turkey Creek  
muck removal  
(dredge)  
and...



discharge to a temporary containment area

**Table 8-1e. South Indian River Lagoon Budget**

Research, Non-point source controls, watershed and coastal wetland plans and projects

**SFWMD Budget Estimates**

Includes ad valorem, IRLNEP (EPA), license plate, and state-appropriated funds directed to the Districts

**Fiscal Year**

	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07
<b>Seagrass &amp; Water Quality</b>	<b>These projects are applied Lagoon-wide, including South IRL, and estimated costs are found in the Lagoon-wide Budget (Table 8-1a)</b>					
Seagrass photography & mapping						
Seagrass field monitoring						
Ambient water quality monitoring						
Quantification of inputs/boundary conditions for IRL modeling						
Drift macroalgae monitoring						
Assessment of new methods to monitor & manage data						
Investigation of factors limiting seagrass growth (light, salinity, hydrodynamics, etc.)						
Muck and toxic substances survey						
Inventory of domestic WWTPs						
Application of watershed and IRL models	\$18,500	\$34,000	\$85,000	\$85,000	\$120,000	\$120,000
PLRG/TMDL development & coordination	\$12,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
Non-point (stormwater) control projects	\$247,150	\$496,949	\$500,000	\$500,000	\$500,000	\$500,000
Moore's Creek Stormwater Retrofit	\$460,000	--	--	--	--	--
Taylor Cr. muck removal*	\$0*	\$0	\$0	--	--	--
Applicable IRL-South F.S. components**	\$0	\$0	\$2.0M	\$2.0M	\$2.325M	\$2.0M
<b>TOTALS</b> rounded to nearest \$1,000	<b>\$738,000</b>	<b>\$551,000</b>	<b>\$2.605M</b>	<b>\$2.605M</b>	<b>\$2.965M</b>	<b>\$2.640M</b>
<b>Coastal Wetlands</b>						
Shoreline Habitat Restoration	\$152,730	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000
Shoreline vegetation plantings – coordination with ELC	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500
Mosquito Impoundment Rehabilitation	\$102,311	\$175,000	\$175,000	\$150,000	\$125,000	\$100,000
Gen. planning/coordination for wetland rehabilitation and management	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
<b>TOTALS</b> rounded to nearest \$1,000	<b>\$263,000</b>	<b>\$258,000</b>	<b>\$258,000</b>	<b>\$233,000</b>	<b>\$208,000</b>	<b>\$183,000</b>

\* SFWMD contributed funds in previous fiscal years to help cover contractual work managed by St. Lucie County. Muck removal from Taylor Creek may be completed by 2004. \*\* IRL-South F.S. program is funded 50/50 by USACE/SFWMD; this table shows SFWMD costs only.



Planting red mangrove seedlings in the South IRL



Public awareness &amp; education is an ongoing campaign reaching from South IRL to the Mosquito Lagoon

**Table 8-1f. St. Lucie River Estuary (SLR) Budget**

Monitoring, research, Non-point source controls, other watershed plans and projects

**SFWMD Budget Estimates**

Includes ad valorem, IRLNEP (EPA), license plate, and state-appropriated funds directed to the Districts

	Fiscal Year					
	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07
<b>Water Quality &amp; Biological Resources</b>						
VEC restoration - oysters	\$239,168	\$80,623	\$90,000	\$90,000	\$90,000	\$90,000
Development & application of models	\$125,000	\$60,000	\$80,000	\$105,000	\$120,000	\$100,000
PLRG/TMDL development & application	\$100,000	\$20,000	\$40,000	\$50,000	\$75,000	\$50,000
Non-point (stormwater) control projects	\$745,067	\$1.114M	\$1.950M	\$1.80M	\$1.80M	\$1.80M
Ten Mile Creek Water Preserve Area*	\$475,615	\$0	--	--	--	--
Muck removal pilot project	\$ 75,486	\$0	--	--	--	--
North Fork nursery study	\$ 7,500	\$10,000	\$20,500	--	--	--
IRL/Savannas Preserve	\$0	\$1.0M	--	--	--	--
Applicable IRL South F.S. components**	\$20.415M	\$422.222M	\$145.665M	\$126.543M	\$57.782M	\$15.583M
<b>TOTALS</b> rounded to nearest \$1,000	<b>\$22.183M</b>	<b>\$445.070M</b>	<b>\$167.470M</b>	<b>\$147.198M</b>	<b>\$58.867M</b>	<b>\$17.623M</b>
<b>SLR Floodplain &amp; Tributary Habitats</b>						
Shoreline Habitat Restoration	\$0	\$20,000	\$20,000	\$20,000	\$30,000	\$35,000
Tributary Habitat Restoration	\$0	\$50,000	\$50,000	\$50,000	\$75,000	\$90,000
<b>TOTALS</b> rounded to nearest \$1,000	<b>\$0</b>	<b>\$70,000</b>	<b>\$70,000</b>	<b>\$70,000</b>	<b>\$105,000</b>	<b>\$115,000</b>

\* SFWMD contributed funds in previous fiscal years to help cover project planning, design and other cost elements

\*\* IRL-South F.S. program is funded 50/50 by USACE/SFWMD; this table shows SFWMD costs only (Table 8-2 shows USACE costs).

**Table 8-2. Other Major Programs Benefiting the Indian River Lagoon System**

- **U.S. Army Corps of Engineers (USACE): Feasibility Studies & Project Implementation**
- **Blueway Land Acquisition Program (estimated land purchase costs only)**
- **St. Lucie River Issues Team**

<i>Fiscal Year</i>						
	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07
<b>IRL- NORTH Feasibility Study USACE costs only, less inflation &amp; any sponsor in-kind (IRL-North F.S. Project Plan, 6/17/02)*</b>						
Public meetings; social, cultural, institutional, & economic studies	\$12,000	\$122,000	\$83,000	\$68,000	\$53,000	\$17,000
NEPA and USFWS reviews and reports	--	\$65,000	\$255,000	--	--	--
Geotechnical & hydrological surveys, mapping, modeling, and project design	\$34,300	\$157,500	\$878,400	\$219,000	\$125,000	\$85,000
Administration, planning, reports, and reviews	\$35,000	\$205,000	\$138,000	\$143,000	\$124,000	\$110,000
<b>Totals</b> <i>rounded to the nearest \$1,000</i>	<b>\$81,000</b>	<b>\$1.550M</b>	<b>\$1.354M</b>	<b>\$430,000</b>	<b>\$302,000</b>	<b>\$212,000</b>
<b>IRL-SOUTH Feasibility Study &amp; Project Implementation</b> <b>USACE costs only (IRL-South F.S. Report)*</b>	<b>\$3.300M</b>	<b>\$6.636M</b>	<b>\$23.872M</b>	<b>\$40.867M</b>	<b>\$89.255M</b>	<b>\$92.218M</b>
<b>BLUEWAY Land Acquisition (Phase I) – Approximate Land Purchase Costs**</b>						
Mosquito Lagoon, Banana R. Lagoon, N. and Central IRL (up to 7,705 acres)	\$0	\$4.0M	\$5.0M	\$5.0M	\$5.0M	\$10.0M
South IRL and St. Lucie River (up to 1,253 acres)	-----To Be Determined-----					
<b>Totals</b> <i>rounded to the nearest \$1,000</i>	<b>\$0</b>	<b>\$4.0M</b>	<b>\$5.0M</b>	<b>\$5.0M</b>	<b>\$5.0M</b>	<b>\$10.0M</b>
<b>ST. LUCIE RIVER Issues Team</b> Legislative appropriations only	<b>\$4.0M</b>	<b>\$5.0M</b>	<b>\$5.0M</b>	<b>\$5.0M</b>	<b>\$5.0M</b>	<b>\$5.0M</b>

\* The IRL-North and IRL-South programs are funded 50/50 by the USACE and the Districts (as the local sponsors). The budgets shown above are the estimated USACE costs only. The Districts' match is represented in the preceding tables; indicated by asterisked projects.

\*\* The total 1998 assessed value of the 8,857 acres of land targeted for Phase I of *Blueway* acquisition is ~\$60,000,000. Funds would be derived from individual county land acquisition programs (especially in the case of South IRL – St. Lucie and Martin counties), and from the state's Florida Forever program, FDOT mitigation bank, and the Districts' Save Our Rivers program.